

CONFIDENTIAL

- 2 -

(4) Zeitschrift fuer Krebsforschung [Journal of Cancer Research] 36, 2.15.1932, and others.

5. It must be said, in general, that M Magat is a prominent researcher on cancerous tumors and carcinogenic substances.
6. Professor L M Shabad (Leningrad) also works on carcinogenic substances. For instance, he applied 1, 2, 5, 6-dibenzanthracene to the skin of various animals and caused malignancy. Shabad was the first to make a discovery of extraordinary importance--he extracted a carcinogenic substance from the liver of a man who had died of cancer of the stomach but who had had no metastases, and with the help of this substance Shabad produced experimental cancer in animals.
7. The works of L Shabad have been published in various periodicals, particularly in the following:
 - (1) Bulletin of Experimental Biology and Medicine, 3, third edition, pp 269 - 1937.
 - (2) Zeitschrift fuer Krebsforschung, 42, 295 - 1935 and others.
8. Professor A D Tymofievs'kyi (Kharkov, Institute of Roentgenology and Radiology) is very active in research on tissue cultures. He has worked with various carcinogenic substances (1,2-benzopyrene, methyl chloranthrene and others). He has conducted some of this research in collaboration with other researchers. Along with Benevolens'ka, Tymofievs'kyi discovered: (1) that carcinogenic substances cause dissociation between cell multiplication and carbohydrate metabolism; (2) that sugar consumption remains rather high when the growth and multiplication of tissue cultures are sharply repressed; and (3) that atypical mitosis occurs in the cultures at a certain stage in the action of carcinogenic substances.
9. His works are published in many journals.
 - (1) Problems in Oncology 10, second edition, 22, 1936
 - (2) General and Specific Oncology. An article entitled "The Biology of a Cancer Cell." I, pp 33, 194 [probably pp 33-194].
10. A great scientific center where research on problems connected with carcinoma is conducted is the Institute of Experimental Biology and Pathology in Kiev, Vynogradna Ulitsa No 11. The Institute is called imeni A Bogomolets; and the department of comparative and experimental oncology is directed by Professor Rostyslav Kavets'kyi. The works of this department and the entire Institute are published in the Medical Journal of the Ukrainian Academy of Sciences in Kiev.

- end -

CONFIDENTIAL